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				2.	Performance prediction with benchmaps Toledo, S.; Parallel Processing Symposium, 1996., Proceedings of IPPS '96, The 10th International 15-19 April 1996 Page(s):479 - 484			
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2. Predicting real-world performance for key parameters in a CDMA cellular system

Vehicular Technology Conference, 1996. 'Mobile Technology for the Human Race'., IE

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Labedz, G.; Love, R.; Stewart, K.; Menich, B.;

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Volume 3, 28 April-1 May 1996 Page(s):1472 - 1476 vol.3

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41 A tool for creating predictive performance models from user interface demonstrations Scott E. Hudson, Bonnie E. John, Keith Knudsen, Michael D. Byrne

November 1999 Proceedings of the 12th annual ACM symposium on User interface software and technology

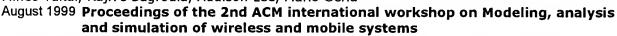
Full text available: pdf(113.85 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

A central goal of many user interface development tools has been to make the construction of high quality interfaces easy enough that iterative design approaches could be a practical reality. In the last 15 years significant advances in this regard have been achieved. However, the evaluation portion of the iterative design process has received relatively little support from tools. Even though advances have also been made in usability evaluation methods, nearly all evaluation is still done & ...

Keywords: GOMS, event logs, task modeling, tool support for evaluation, toolkits

42 Impact of channel models on simulation of large scale wireless networks
Mineo Takai, Rajive Bagrodia, Addison Lee, Mario Gerla



Full text available: pdf(906.82 KB) Additional Information: full citation, references, citings, index terms

43 Reviewed papers: Using spreadsheets as a simple and effective teaching tool for predicting and visualizing parallel program performance

Zoltan Juhasz

June 1999 ACM SIGCSE Bulletin, Volume 31 Issue 2

Full text available: pdf(449.57 KB) Additional Information: full citation, abstract, references

This paper describes how we can use a spreadsheet program as an inexpensive and readily available tool to help students understand the execution behavior of parallel programs. Using the proposed method a performance prediction model can be created in a matter of minutes and the performance of the parallel system can be visualized and animated by using standard three-dimensional surface plots and user interface control objects.

The international symposium on software engineering for parallel and distributed



systems PDSE '99

Peter R. Croll, Hesham El-Rewini

May 1999 Proceedings of the 21st international conference on Software engineering

Full text available: Redf(198.66 KB) Additional Information: full citation, citings, index terms

45 Performance prediction tools for parallel discrete-event simulation

Chu-Cheow Lim, Yoke-Hean Low, Boon-Ping Gan, Sanjay Jain, Wentong Cai, Wen Jing Hsu, Shell Ying Huang

May 1999 Proceedings of the thirteenth workshop on Parallel and distributed simulation

Publisher Site

Full text available: pdf(788.70 KB) Additional Information: full citation, abstract, references, citings, index terms

We have developed a set of performance prediction tools which help to estimate the achievable speedups from parallelizing a sequential simulation. The tools focus on two important factors in the actual speedup of a parallel simulation program: (a) the simulation protocol used, and (b) the inherent parallelism in the simulation model. The first two tools are a performance/parallelism analyzer for a conservative, asynchronous simulation protocol, and a similar analyzer for a conservative, synchro ...

46 Context-sensitive learning methods for text categorization

William W. Cohen, Yoram Singer

April 1999 ACM Transactions on Information Systems (TOIS), Volume 17 Issue 2

Full text available: pdf(256.75 KB)

Additional Information: full citation, abstract, references, citings, index

Two recently implemented machine-learning algorithms, RIPPERand sleeping-experts for phrases, are evaluated on a number of large text categorization problems. These algorithms both construct classifiers that allow the "context" of a word w to affect how (or even whether) the presence or absence of w will contribute to a classification. However, RIPPER and sleeping-experts differ radically in many other respects: ...

Keywords: context-sensitive models, mistake-driven algorithms, on-line learning, rule learning, text categorization

47 Querying very large multi-dimensional datasets in ADR

Tahsin Kurc, Chialin Chang, Renato Ferreira, Alan Sussman, Joel Saltz January 1999 Proceedings of the 1999 ACM/IEEE conference on Supercomputing

Full text available: pdf(121.73 KB) Additional Information: full citation, references, citings, index terms

48 A cost-benefit scheme for high performance predictive prefetching

Vivekanand Vellanki, Ann L. Chervenak

January 1999 Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)

Full text available: pdf(169.68 KB) Additional Information: full citation, references, index terms

49 Enterprise architecture for business process simulation Ali Bahrami, Deborah Sadowski, Soheila Bahrami

December 1998 Proceedings of the 30th conference on Winter simulation

Full text available: 📆 pdf(174.64 KB) Additional Information: full citation, references, citings, index terms

50 On a language based method for software performance engineering of client/server

Daniel A. Menascé, Hassan Gomaa October 1998 Proceedings of the first international workshop on Software and performance

Full text available: cdf(837.51 KB) Additional Information: full citation, references, citings, index terms

51 Managing performance requirements for information systems

Brian A. Nixon

October 1998 Proceedings of the first international workshop on Software and performance

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52 Performance analysis of time warp simulation with cascading rollbacks

Seng Chuan Tay, Yong Meng Teo, Rassul Ayani

July 1998 ACM SIGSIM Simulation Digest, Proceedings of the twelfth workshop on Parallel and distributed simulation, Volume 28 Issue 1

Full text available: pdf(895.52 KB) Additional Information: full citation, references, citings, index terms Publisher Site

53 An analytic behavior model for disk drives with readahead caches and request

Elizabeth Shriver, Arif Merchant, John Wilkes

June 1998 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1998 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems, Volume 26 Issue 1

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.44 MB) terms

Modern disk drives read-ahead data and reorder incoming requests in a workloaddependent fashion. This improves their performance, but makes simple analytical models of them inadequate for performance prediction, capacity planning, workload balancing, and so on. To address this problem we have developed a new analytic model for disk drives that do readahead and request reordering. We did so by developing performance models of the disk drive components (queues, caches, and the disk mechanism) and ...

54 Recruiting, retaining, and developing IT professionals: an empirically derived taxonomy

of human resource practices Ritu Agarwal, Thomas W. Ferratt

June 1998 Proceedings of the 1998 ACM SIGCPR conference on Computer personnel research

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33	Data base design principles for striping and placement of delay-sensitive data on disks	
	Stavros Christodoulakis, Fenia A. Zioga May 1998 Proceedings of the seventeenth ACM SIGACT-SIGMOD-SIGART symposium	
	on Principles of database systems	
	Full text available: pdf(1.38 MB) Additional Information: full citation, references, index terms	
56	Experiment management support for performance tuning	
	Karen L. Karavanic, Barton P. Miller	
	November 1997 Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)	
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	The development of a high-performance parallel system or application is an evolutionary process. It may begin with models or simulations, followed by an initial implementation of the program. The code is then incrementally modified to tune its performance and continues to evolve throughout the applications's life span. At each step, the key question for developers is: how and how much did the performance change? This question arises comparing an implementation to models or simu	
57	Device and technology optimizations for low power design in deep sub-micron regime Kai Chen, Chenming Hu August 1997 Proceedings of the 1997 international symposium on Low power electronics and design Full text available: pdf(489.22 KB) Additional Information: full citation, references	
58	A quality planning model for distributed multimedia in the virtual cockpit Mark Claypool, John Riedl February 1997 Proceedings of the fourth ACM international conference on Multimedia Full text available: pdf(1.32 MB) Additional Information: full citation, references, index terms	
	Keywords: communications/networking/VOD applications	
59	IS '97: model curriculum and guidelines for undergraduate degree programs in information systems Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker December 1996 ACM SIGMIS Database, Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree	
	programs in information systems, Volume 28 Issue 1 Full text available: pdf(7.24 MB) Additional Information: full citation, citings	
60	A testbed for parallel simulation performance prediction Alois Ferscha, James Johnson November 1996 Proceedings of the 28th conference on Winter simulation	
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61 COMNET III: object-oriented network performance prediction

Jeffry Jones

December 1995 Proceedings of the 27th conference on Winter simulation

Full text available: pdf(328.42 KB) Additional Information: full citation, citings, index terms

62 Mobile wireless network system simulation

Joel Short, Rajive Bagrodia, Leonard Kleinrock

December 1995 Proceedings of the 1st annual international conference on Mobile computing and networking

Full text available: R pdf(1.63 MB)

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63 Dealing with non-functional requirements: three experimental studies of a processoriented approach



Lawrence Chung, Brian A. Nixon

April 1995 Proceedings of the 17th international conference on Software engineering

Full text available: pdf(1.61 MB)

Additional Information: full citation, references, citings, index terms

64 Performance prediction of parallel systems with scalable specifications—methodology and case study



H. Wabnig, G. Haring

April 1995 ACM SIGMETRICS Performance Evaluation Review, Volume 22 Issue 2-4

Full text available: 7 pdf(1.34 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes the general methodology of specifying parallel systems within the PAPS (Performance Analysis of Parallel Systems) toolset and presents a case study that shows the applicability and accuracy of the Petri net based performance prediction tools contained in the toolset. Parallel systems are specified in the PAPS toolset by separately defining the program workload, the hardware resources, and the mapping of the program to the hardware. The resource parameterization is described ...

65	Simulation for agile control of aerospace manufacturing Ray Rolen, Richard A. Kilgore December 1994 Proceedings of the 26th conference on Winter simulation	
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	Performance prediction of parallel systems with scalable specifications—methodology and case study Harald Wabnig, Günter Haring May 1994 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems, Volume 22 Issue 1 Full text available: pdf(182.26 KB) Additional Information: full citation, references, citings, index terms	
	A preliminary analysis of the products of HCI research, using pro forma abstracts William Newman April 1994 Proceedings of the SIGCHI conference on Human factors in computing systems: celebrating interdependence Full text available: pdf(671.13 KB) Additional Information: full citation, references, citings, index terms	. 1999
	Keywords: abstracts, human-computer interaction, radical solutions, research methods, research products, system design Development and evaluation of a taxonomical model of behavioral representation techniques J. D. Chase, Robert S. Schulman, H. Rex Hartson, Deborah Hix April 1994 Proceedings of the SIGCHI conference on Human factors in computing	
	systems: celebrating interdependence Full text available: pdf(757.05 KB) Additional Information: full citation, references, index terms Keywords: behavioral representation techniques, empirical evaluation, interaction development, model, usability	
	Hedonic price analysis of workstation attributes H. Raghav Rao, Brian D. Lynch December 1993 Communications of the ACM, Volume 36 Issue 12 Full text available: pdf(3.73 MB) Additional Information: full citation, references, index terms	
	Keywords: Hedonic price functions, statistics, workstations	
	The Parallel Protocol Engine Matthias Kaiserswerth December 1993 IEEE/ACM Transactions on Networking (TON), Volume 1 Issue 6	*00000:*

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71 The modeling methodology, model specifications and development of CASI:

CASE/Architecture Simulation Integration

Arnold J. Almanzor, Paul R. Work

December 1993 Proceedings of the 25th conference on Winter simulation

Full text available: pdf(427.31 KB) Additional Information: full citation, references

72 Software evolution: Maintenance productivity: observations based on an experience in a large system environment



Carl S. Hartzman, Charles F. Austin

October 1993 Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1

Full text available: pdf(1.95 MB)

Additional Information: full citation, abstract, references

This paper is concerned with the economical maintenance of large software products. It examines the software maintenance process and outlines a framework, based on costbenefit, within which changes to the maintenance environment affecting future maintenance productivity can be evaluated. It also looks at the rationale for the recommendations that are made. The recommendations include the formation of a team charged with overseeing the maintainability of the products and the implementation of ce ...

73 Estimating accesses in partitioned signature file organizations



Paulo Ciaccia, Pavel Zezula

April 1993 ACM Transactions on Information Systems (TOIS), Volume 11 Issue 2

Full text available: pdf(508.27 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

We show that performance of some basic methods for the partitioning of signature files, namely Quick Filter and Fixed Prefix, can be easily evaluated by means of a closed formula. The approximation is based on well-known results from probability theory, and, as shown by simulations, introduces no appreciable errors when compared with the exact, cumbersome formulas used so far. Furthermore, we prove that the exact formulas for the two methods coincide. Although this does not imply that the t ...

Keywords: access method, information retrieval, performance evaluation, superimposed coding

74 A status report on research in transparent informed prefetching





Full text available: pdf(1.60 MB)

Additional Information: full citation, abstract, citings, index terms

This paper focuses on extending the power of caching and prefetching to reduce file read latencies by exploiting application level hints about future I/O accesses. We argue that systems that disclose high-level knowledge can transfer optimization information across module boundaries in a manner consistent with sound software engineering principles. Such Transparent Informed Prefetching (TIP) systems provide a technique for converting the high throughput of new technologies such as disk arrays an ...

75 The winter simulation conference: perspectives of the founding fathers
Michel Araten, Harold G. Hixson, Austin C. Hoggatt, Philip J. Kiviat, Michael F. Morris, Arnold
Ockene, Julian Reitman, Joseph M. Sussman, James R. Wilson
December 1992 Proceedings of the 24th conference on Winter simulation

Full text available: pdf(2.83 MB) Additional Information: full citation, references, citings, index terms

76 Object-oriented network performance prediction Jeffry Jones, Robb Mills, John Goble

December 1992 Proceedings of the 24th conference on Winter simulation

Full text available: pdf(271.78 KB) Additional Information: full citation, index terms

77 Dynamic partitioning of signature files

P. Zezula, F. Rabitti, P. Tiberio

October 1991 ACM Transactions on Information Systems (TOIS), Volume 9 Issue 4

Full text available: pdf(2.22 MB) Additional Information: full citation, references, citings, index terms, review

78 Principles and realization strategies of multilevel transaction management
Gerhard Weikum

March 1991 ACM Transactions on Database Systems (TODS), Volume 16 Issue 1

Full text available: pdf(3.72 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

One of the demands of database system transaction management is to achieve a high degree of concurrency by taking into consideration the semantics of high-level operations. On the other hand, the implementation of such operations must pay attention to conflicts on the storage representation levels below. To meet these requirements in a layered architecture, we propose a multilevel transaction management utilizing layer-specific semantics. Based on the theoretical notion of multilevel serial ...

Keywords: atomicity persistence concurrency control, multilevel transactions, persistence, serializability

79 Economic analysis of microcomputer hardware

Brian D. Lynch, H. Raghav Rao, Winston T. Lin

October 1990 Communications of the ACM, Volume 33 Issue 10

Full text available: pdf(2.52 MB)

Additional Information: full citation, abstract, references, citings, index terms

Economic analysis of the hardware characteristics of the personal computer segment of the microcomputer market indicates that the variables that most affect cost are the bundle of attributes offered by the micros. Interestingly, certain technological characteristics found to be important explanatory variables for cost in larger computers were not found to be significant for micros.

80 Accurate rendering technique based on colorimetric conception

Atsushi Takagi, Hitoshi Takaoka, Tetsuya Oshima, Yoshinori Ogata
September 1990 ACM SIGGRAPH Computer Graphics, Proceedings of the 17th annual
conference on Computer graphics and interactive techniques, Volume 24
Issue 4

Full text available: pdf(7.65 MB) Additional Information: full citation, abstract, references, citings, index terms

We have developed a rendering technique to generate realistic images meeting designers' requirements by strictly analyzing various physical phenomena relevant to the appearance of actual objects. We have numerically compared the results of the calculations using this technique with colorimetry values. As a result, both values were virtually equal, so we have been able to confirm the effectiveness of the established technique. Application of this technique to car design, which has not been realized ...

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